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1 Subt. For, PTO-1449

INFORMATION DISCLOSURE IN AN APPLICATION

(Use several sheets if necessary)

OF

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Docket Number 47508.250US3 HYZ-040 CIP Application Number 08/887,505

Applicant Kilkuskie, et al.

Filing Date
July 2, 1997

Group Art Unit 1634

		U.	S. Patent Docume	nts		
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	6,071,693	6/2000	Cha, et al	435	6	
~	5,866,336	2/2/99	Nazarenko, et al.	435	6	
	5,846,704	12/8/08	Maertens, et al.	435	5	
X	5,527,899	6/18/96	Froehler	536	25.3	
-	5,424,413	6/13/95	Hogan, et al.	536	24.31	

Foreign Patent Documents								
EXAMINER	DOCUMENT	DATE		COUNTRY	CLASS	SUBCLASS	TRANS	LATION
INITIAL	NUMBER						YES	NO
4	0 388 232	9/43/19/904/19	90	EP	- C12N	-15/51 -		
da	0 469 348	-7/9/9+ 2/5/0	iz	EP	-012N -	15/51		
x	0 518 313	-6/11/92 12/	6/92	EP	-C12N-	15/5 1		
d-	0 532 258		193	EP	-6120 -	1/7 0		
d	0 554 624	12/24/92 8/	1/93	EP	- C07K-	. 15/00		
2	0 633 321	6/13/94-	11/95	EP	-C12Q-	1/70-		
1	2,104,649	0.000.000	26/9/	Canada				
4	92/19743		2/92	wo				
L	92/02642		0/92	wo				
K	94/01550		20/94	wo				
de	94/08002	-9/28/93 4	1494	wo				
d	94/05813		11/94	wo				
d-	95/01442	-6/28/94 /	1/2/95	wo				
L	96/35706	_5/10/96 //	114/96	wo		— .		
7	98/40479	2/12/98 9	1/7/98	wo		_		

		Other Documents (Including Author, Title, Date Pertinent Pages, Etc.)
2	A1	Bukh, Jens, et al. "Sequence analysis of the 5" noncoding region of hepatitis C virus," 1992, Biochemistry, Vol. 89, pgs. 4942-4946
de	A2	Fuchs, et al, "Characterization of nucleotide sequences from European hepatitis C virus isolates Gene," 1991, Vol. 103, pgs. 163-169
d	A3	Hotta, Hak, et al, "Subtype Analysis of Hepatitis C Virus in Indonesia on the Basis of NS5b Region Sequences," 1994, J. Clinical Microbiology, Vol. 32, pgs. 3049-3051.
4	A4	Gura, "Antisense Has Growing Pains," 1995, Science, Vol. 270, pgs. 575-577
4	A5	James, W., "Towards gene-inhibition therapy: a review of progress and prospects in the field of antiviral antisense nucleic acids and ribozymes," 1991, Antiviral Chem. & Chemotherapy, Vol. 2, pgs. 191-214
~	A6	Martell, Maria, et al., *Dynamic Behavior of Hepatitis C Virus Quasispecies in Patients Undergoing Orthotopic Liver Transplantation, 1994, J. Virolog, Vol. 68, pgs. 3425-3436

_						
4/27/05						
EXAMINER: Initial if citation is considered, whether or not citation is in conformance with MPEP § 609: Draw Line through						
EXAMINER: Initial if citation is considered, whether or not citation is in conformance with MPEP § 609: Draw Line through citation if not conformance and not considered. Include copy with next communication to applicant.						

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INFORMATION DISCLOSURE IN AN APPLICATION

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pgs. 889-899

Docket Number 47508.250US3 HYZ-040 CIP Application Number 08/887,505

Applicant Kilkuskie, et al.

Filing Date
July 2, 1997

Group Art Unit 1634

L	A7	Monia, Brett P., et al, "Selective Inhibition of Mutant Ha-ras mRNA Expression by Antisense Oligonucleotides," 1992, J. Bio. Chem., Vol. 267, pgs. 19954-19962
de	A8	Milligan, John F., et al., "Current Concepts in Antisense Drug Design," 1993, J. Med. Chem., Vol. 36, pgs. 1923- 1937
~	A9	Salunkhe, Manikrao et al., "Control of Folding and Binding of Oligonucleotides by Use of a Nonnucleotide Linker," 1992, J. Am. Chem. Soc., Vol. 114, pgs. 8768-8772
L	A10	Simmonds, P., et al., "Sequence variability in the 5' non-coding region of hepatitis C virus: Identification of a new virus type and restrictions on sequence diversity," 1993, J. Gen. Virology, Vol. 74, pgs.661-667
	A11	Stein, A., et al., "Antisense Oligonucleotides as Therapeutic Agents – Is the Bullet Really Magical?" 1993, Science, Vol. 261, pgs. 1004-1012
de	A12	Stratagene 1988 Catalog page 39
L	A13	Stuyver, Lieven, et al., "Typing of Hepatitis C virus isolates and characterization of new subtypes using a line probe assay," 1993, J Gen. Virology, Vol. 74, pgs. 1093-1102
4	A14	Stuyver, Lieven, et al., "Classification of hepatitis C viruses based on phylogenetic analysis of the envelope 1 and nonstructural 5B regions and identification of five additional subtypes," 1994, BioChemistry, Vol. 91, pgs.10134-10138
K	A15	Tseng, B.Y., et al., "Antisense eligonucleotide technology in the development of cancer therapeutics," 1994, Cancer Gene Therapy, Vol. 1 pgs. 65-71
h	A16	Uhlmann, E., et al., 1990, Antisense Oligonucleotides: A New Therapeutic Principle, Chem. Reviews, Vol. 90, pgs. 543-584
4	A17	Wakita, et al., 1994, "Specific Inhibition of Hepatitis C Virus Expression by Antisense Oligodeoxynucleotides," J. Bio. Chem Vol. 269, pgs. 14205-14210
4	A18	Wang, et al., 1994, "A Conserved Helical Element is Essential for Internal Initiation of Translation of Hepatitis C Virus RNA," J. Virol., Vol. 68, pgs. 7301-7307
K	A19	Westermann, P. et al., "Inhibition of expression of SV40 virus large T-antigen by antisense oligodeoxyribonucleotides," 1989, Biomed. Biochim, Acta, Vol. 48, pgs. 85-93
2	A20	Yoo, Byoung J. et al., 1995, "Transfection of a Differentiated Human Hepatoma Cell Line (Huh7) with In Virtro- Transcribed Hepatitis C Virus (HCV) RNA and Establishment of a Long-Term Culture Persistently Infected with HCV," J. Virol., Vol. 69, pgs. 32-38
6	A21	Yoo, Byoung, J. et al., 1992, "End-Dependent Translation Initiation of Hepatitis C Viral RNA and the Presence of Putative Positive and Negative Translational Control Elements with the 5' Untranslated Region," J. Virol. Vol. 191, pp. 889-899

EXAMINER	DATE CONSIDERED
of history	4/27/05

EXAMINER: Initial if citation is considered, whether or not citation is in conformance with MPEP § 609: Draw Line through citation if not conformance and not considered. Include copy with next communication to applicant.

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U.S. Patent Documents								
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Foreign Patent Documents								
EXAMINER	DOCUMENT	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION		
INITIAL	NUMBER					YES	NO	
	95/30746	11/16/95	wo					
			·-·					

	,	Other Documents (Including Author, Title, Date Pertinent Pages, Etc.)
×	A1	Alt, M., et al., "Specific Inhibition of Hepatitis C Viral Gene Expression by Antisense Phosphorothioate Oligodeoxynucleotides," Hepatology (1995) Vol. 22, No. 3; pgs. 707-717
K	A2	Anderson, K.P., et al, "Antisense Oligonucleotide-mediated Inhibition of Hepatitis C Virus Gene Express in Transformed Hepatocytes," Ninth Int'l Conf. On Antiviral Research, Urabandai, Japan (May 19-24, 1996), Vol. 30(1)
4	А3	Mizutani, T., et al., "Inhibition of Hepatitis C Virus Replication by Antisense Oligonucleotide in Culture Cells," Biochemical and Biophysical Research Communications, (1995) Vol. 212(3), pgs. 906-911
d	Á4	Moradpour D., et al., "Specific Inhibition of Hepatitis C Virus Gene Expression by Antisense Oligonucleotides in a Tightly Regulated Cell Culture Cell," 46th Annual Mtg. And Post Grad. Course of the Amer. Assoc. Study of Liver Diseases, Chicago, IL (Nov. 3-7 1995) Hepatology Vol. 22
	A 5	
	A6	

EXAMINER	DATE CONSIDERED				
a hite	4/27/05				
EXAMINER: Initial if citation is considered, whether or not citation is in conformance with MPEP § 609: Draw Line through citation if not conformance and not considered. Include copy with next communication to applicant.					